

## Suspended Solids Remote Monitoring System

### Overview

Our Remote Monitoring System is designed to monitor your Suspended Solids, (mg/L), 365 days a year, 24 hours a day, anywhere you desire! With a built-in telemetry system, you can monitor the parameter from any internet connection, also providing you with historical data and alerts at your consent limit. These systems are hand-built by Liquid Control Systems, using the best components from British companies. The Remote Monitoring System is built to the highest quality with fastidious attention to detail throughout.





## **SUSPENDED SOLIDS**

### **MONITORING**

Using the best sensors on the market, and accurate calibration procedures, we can deliver you accurate and reliable Suspended Solids readings. With a range of mounting accessories to perfectly adapt it to your requirements, Liquid Control Systems are able to conduct our own Gravimetric Tests on samples to ensure accurate calibration.

### **ALERTS**

Associated with the telemetry system there is a marshalling function, alerting you by email or text to any specific event you desire. You can be alerted to: Consent limits, system faults, comms issues, battery degradation etc. Again, we also have the ability to bring in external inputs associated with our product and allowing them to become a part of this system.

## **TELEMETRY**

This setup is monitored with a high-quality telemetry system, providing an online monitoring function. Giving you access to log in and monitor your results. Liquid Control Systems also have the ability to bring in external inputs associated with our product and allow them to become a part of this system.

## **HISTORICAL DATA &**

### **REPORTS**

Integrated into the above telemetry system is a Data Logger, giving you historical data on your application. There is also a Data Recorder built into the analyser, this will further ensure accurate results. These loggers can record at different rates depending on your on-site needs. Both logging sources are easy to use and offer file formats useable in Excel. Liquid Control Systems are more than happy to retrieve these files for you and offer periodic reports.

# TELEMETRY

Unit Overview for Your Site Name (50220270)

[Settings](#)
[Notifications](#)
[Events](#)
[Map](#)
[Files](#)

[Resend Config](#)
[Ack Events](#)
[Park](#)
[Delete](#)

| Location    | [Edit]  | Last Reported Status  |
|-------------|---|---|
| Site Name   | Your Site Name  | Status: Successful  |
| Group       | <a href="#">NEW UNITS</a> <a href="#">Move</a> <a href="#">Locate in Tree</a> | RTU Type: NX22  |
| User Data 1 |   | Communication Method: TCP/IP  |
| User Data 2 |   | Battery Health: Good  |
| User Data 3 |   | Maintenance Due: 22/11/2029   |
| User Data 4 |   | Call Statistics: 82 / 0 / 93  |
| User Data 5 |   | Last Communication: 27/02/2021 18:17:42   |
| User Data 6 |   | Next Expected Communication: 28/02/2021 13:39:00  |
|             |   | Last Device API Communication: 21/02/2021 12:53:51  |
|             |   | GSM Signal Strength: <span style="display: inline-block; width: 50px; height: 10px; background: linear-gradient(to right, green, yellow, red);"></span> Min Max (-79 dBm) |
|             |   | Settings up to Date: Yes  |

| Binary Inputs    | Filter...     | All Statuses | [Expand All] | [Collapse All] | [Edit] | Analogue Inputs         | Filter... | All Statuses   | [Edit] |
|------------------|---------------|--------------|--------------|----------------|--------|-------------------------|-----------|----------------|--------|
| Suspended Solids |               |              |              |                |        | S/S                     |           |                |        |
| Value [50mg/L]   | Below Consent |              |              |                |        | Solar Battery           | 0         | 200 (1.0 mg/L) |        |
| Monitor Status   | Healthy       |              |              |                |        | Temperature             | -40       | 15 (11.2 V)    |        |
|                  |               |              |              |                |        | Dialler Battery Voltage | 0         | 87 (16 °C)     |        |
|                  |               |              |              |                |        |                         |           | 5 (3.31 V)     |        |

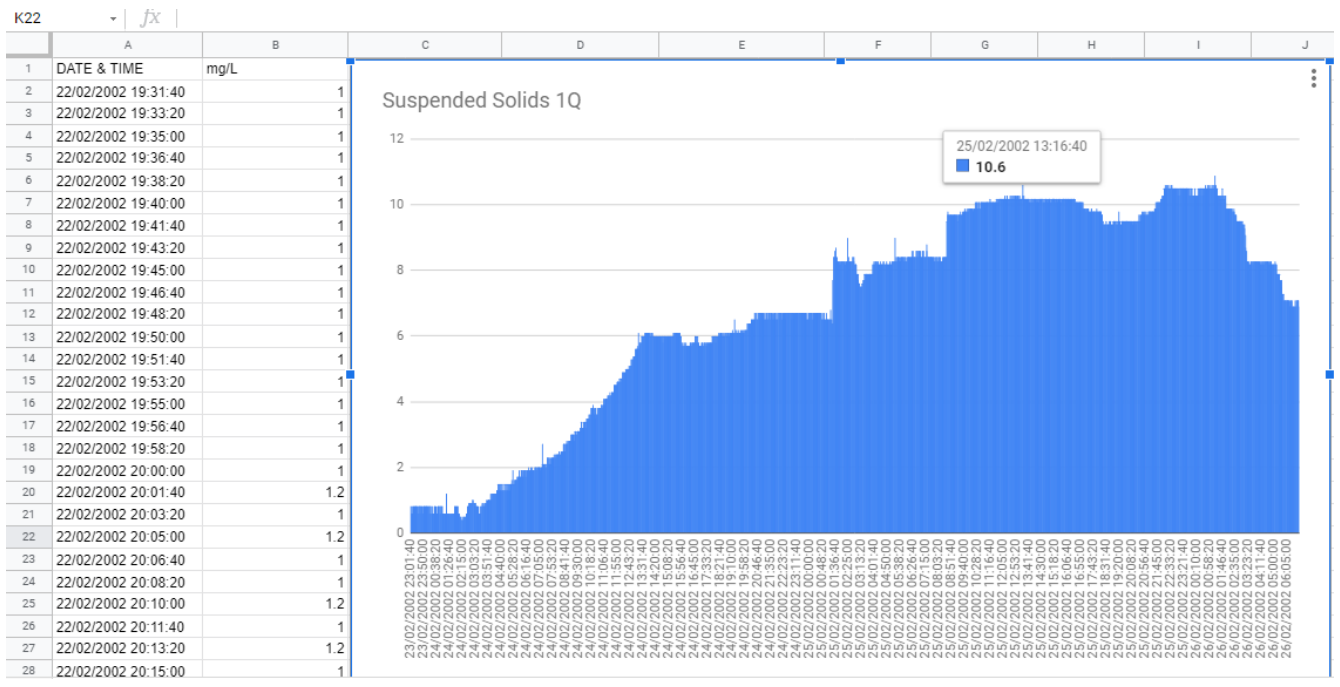
  

| String Inputs | Filter... | [Edit] | Notes | [View] |
|---------------|-----------|--------|-------|--------|
| Network Type  | LTE       |        |       |        |

## Alerts

- Saturday, 27 February 2021
- Message from iHost... Your Site Name Monitor Status Healthy at 27/02/2021 12:57:34 12:58
  - Message from iHost... Your Site Name Value (50mg/L) Below Consent at 27/02/2021 12:59:12 13:00
  - Message from iHost... Your Site Name Value (50mg/L) Above Consent at 27/02/2021 13:00:28 13:01
  - Message from iHost... Your Site Name Value (50mg/L) Below Consent at 27/02/2021 13:07:48 13:08
  - Message from iHost... Your Site Name Monitor Status Fault at 27/02/2021 13:09:11 13:10
  - Message from iHost... Your Site Name Monitor Status Healthy at 27/02/2021 13:10:48 13:11

## Historical Data & Reports



## **OTHER FEATURES**

- The Remote Monitoring System is rigorously mounted and secured against theft and vandalism using high quality equipment.
- Integration with spare relays and inputs, our product can send out control signals to other equipment around site, such as pumps or valves. Our product can also receive your inputs via the dialler system to monitor associated equipment.
- Our sensors can be used in a variety of scenarios, such as fixed in situ, floating, or a sample taken from a pipeline.
- Our Stations can be mobile or fixed in place.

|                               |   |
|-------------------------------|---|
| Dimensions (Inc. Solar Panel) | (H) 1300mm X (D) 1000mm X (W) 2000mm.   |
| Footprint                     | (W) 750mm X (D) 400mm.  |
| Protection Class              | IP65.   |
| Enclosure                     | 2mm zintec sheet steel to BS6687-1986 (chromate washed substrate BS1449-2.5 microns). One layer of etching primer, two layers of powder coat paint. |
| Operating Voltage             | 12V DC.   |
| Logging Intervals             | 1-999 Seconds.  |
| Logging Total                 | 10000, limit or continuous loop.  |
| Sensor Cable Length           | 2 - 100M.   |
| Suspended Solids Range (mg/L) | 0-100, 0-500, 0-1000, 0-2000, 0-5000.   |
| Auxiliary Outputs             | 1 X Com - NO & NC Volt Free Digital. Max 5A.<br>1 X 0/4 - 20mA Analogue. Max 750Ω.  |
| Auxiliary Inputs              | 14 X Volt Free Digital Inputs.  |
| Comms                         | Quad-band GPRS wireless modem and antenna (extendable).   |
| Security                      | 2 X 7mm Triangular door locks, Boron Carbide numerical padlock, and 5mm Stainless Steel wire rope.  |